Air and Space Interoperability Council

ASCC ➝ ASIC: A Transformed Interoperability Organization

Wing Commander Rod Dawson, RAAF
Management Committee

Mission & Vision

- **ASIC precedes NATO**
  - **US: 1948 (USN: 1951)**
  - **UK: 1948**
  - **CA: 1948**
  - **AU: 1964**
  - **NZ: 1965**
  - **US Army: 200X?**

- **Mission:**
  - **'To enhance current and future Air and Space warfighting capabilities through joint and coalition interoperability'**

- **Vision:**
  - **'Allies striving towards fully interoperable and integrated Air and Space forces'**

Standardization Products - A Strong Legacy

- **Aviation Fuels, Lubricants, Associated Products and Gases**
- **Air Armament**
- **Aerospace Engineering, Maintenance and Logistics**
- **Air Transport Systems**
- **Air Operations and Doctrine**
- **Aerospace Medicine, Life Support and Aircrew Systems**
- **Mission Avionics**
- **Intelligence, Surveillance and Reconnaissance**
- **NBC Defensive Measures**
- **Aeronautical Information Airfield Facilities and Air Traffic Services**

- **Staffing Issues**
- **Productivity:**
  - **103 Active Projects (One completed in 2 years!)**
  - **350 published Standards**
  - **Balance current versus future interoperability (need to be more forward looking)**
- **Broader interoperability issues – versus Standardization**
  - **Bottom-Up driven**
- **Not focused on Expeditionary Warfare**
- **Performance Measures:**
  - **Increased coalition efficiency and effectiveness?**
  - **ASIC effectiveness?**
  - **Business case for additional ASIC resources**

Capstone Concept

- **Foundation document which provides strategic direction**
  - **What has changed ...**
    - **Strategic Environment, ASIC Interoperability Priorities**
  - **Where ASIC is going ...**
    - **Values, Vision, Mission, Key Attributes**
  - **How ...**
    - **Interoperability Framework**
      - Whole of warfighting
      - Whole of capability
      - Scenario based
      - Measures of Interoperability (Metric based)

Functional Concepts:
(Whole of Warfighting)

- **Agreed set of effects based warfighting functions:**
  - **Agile Combat Support**
  - **Air Mobility**
  - **Command & Control**
  - **Intelligence, Surveillance, Target Acquisition and Reconnaissance**
  - **Force Application**
  - **Force Protection**
- **Definitions and descriptions are developed in an interoperability context *(not doctrinally pure):***
- **Describes desired levels of interoperability so that work can be properly focused**
- **Lists roles/tasks**

Capability Elements: (Whole of Capability)

- **Agreed set of terms to ensure that ASIC takes a 'whole of capability' approach to considering interoperability issues**

- **Adaptation of the:**
  - **US - DOTMLPF**
  - **AU – Fundamental Inputs to Capability**
  - **CA – PRICIE (Functional Development Portfolio)**
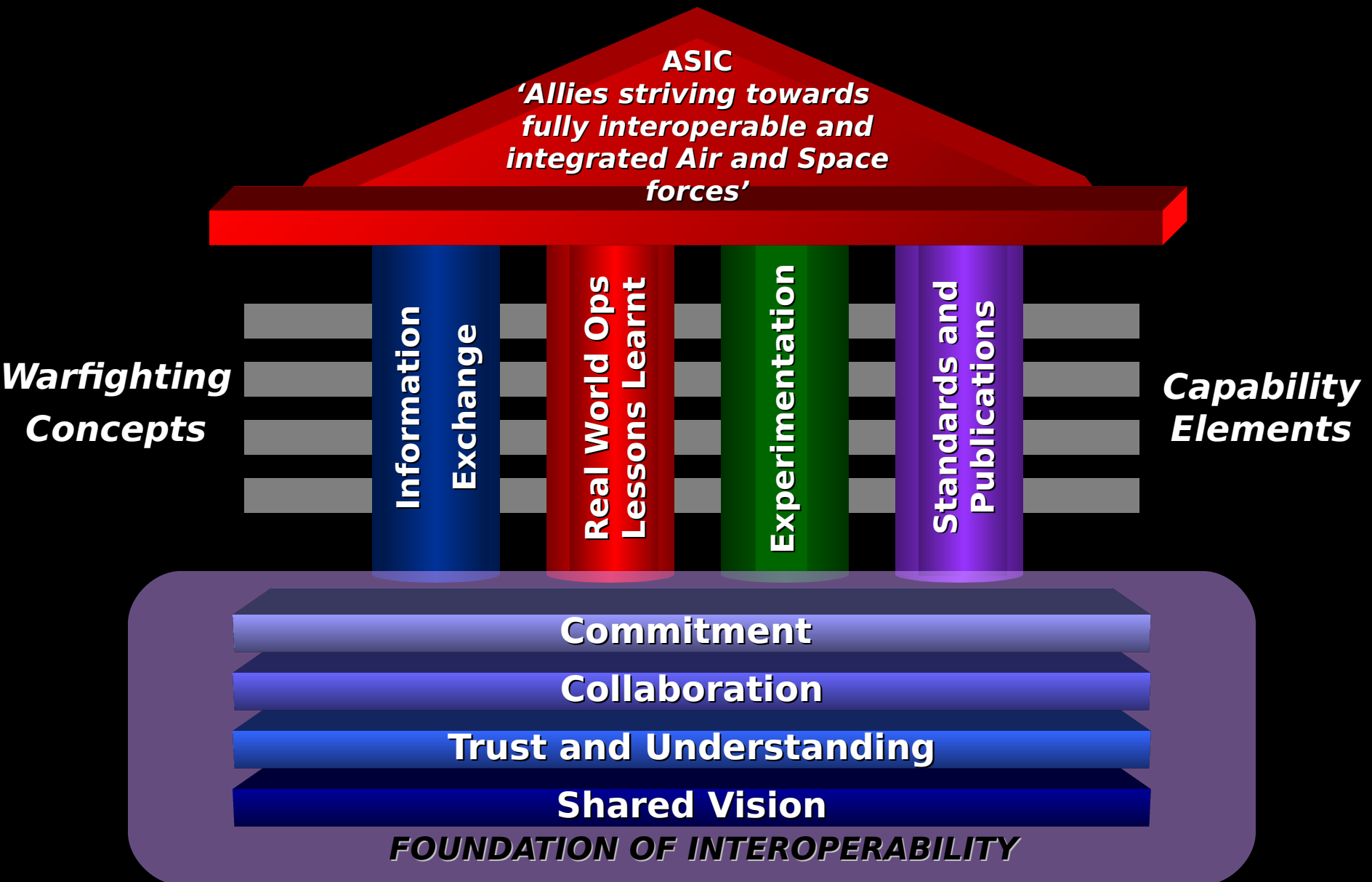 - **UK – Lines of Development**

- **Must balance current, evolving and future force interoperability**
  - **Force-in-Being**
    - **Lessons Learnt**

COALITION WARFIGHTING CAPABILITY OVER TIME

– INFORM NATIONAL CAPABILITY DEVELOPMENT PLANS

    - **Experimentation (People/Organization/Doctrine and Technology)**
  - **Future Force**
    - **Future concepts and architectures**
    - **Experimentation (People/Organization/Doctrine and Technology)**
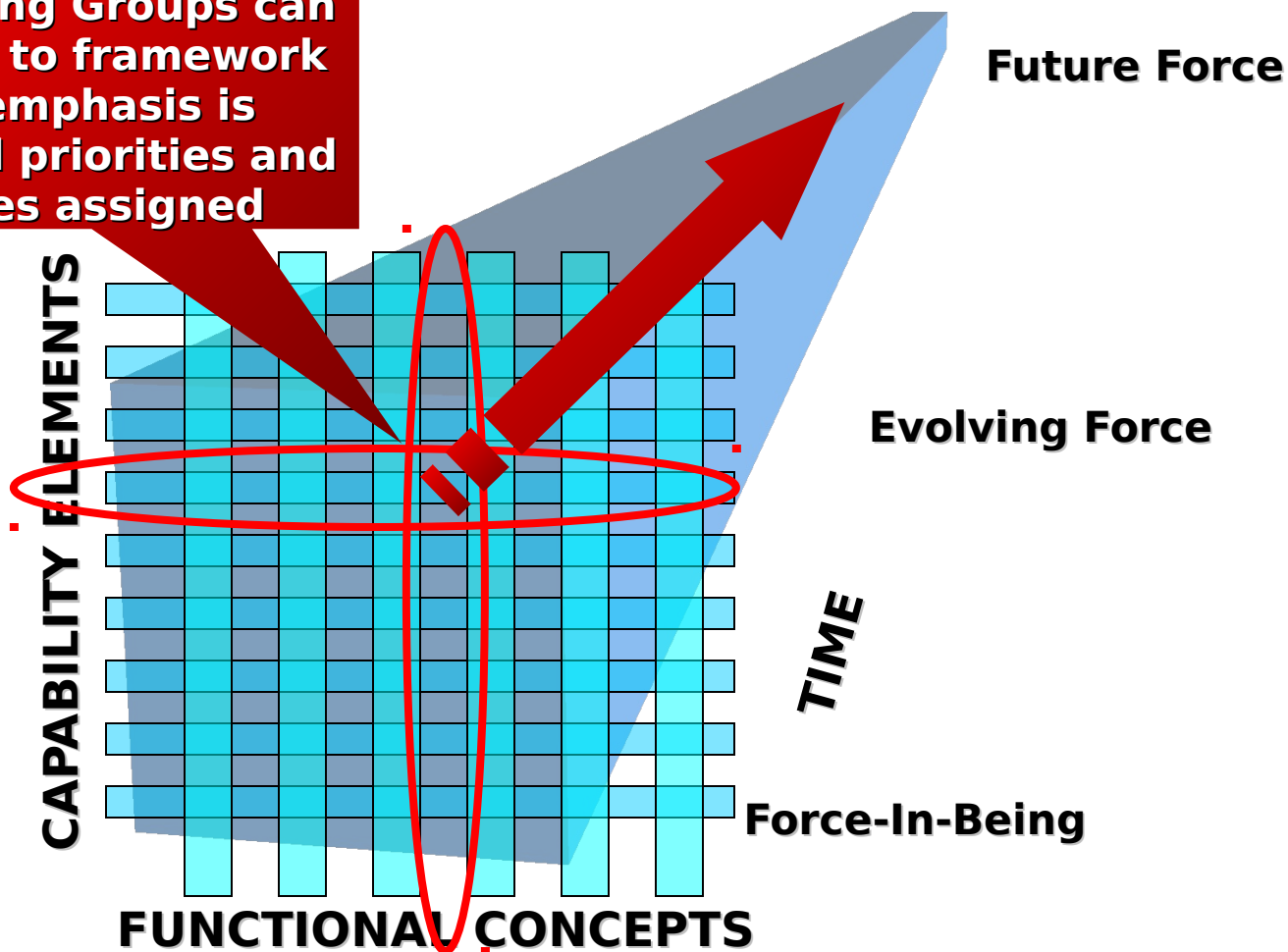   - **CTDs/TDPs**

Interoperability Framework

- **Maps Functional Concepts and Capability Elements against desired levels of interoperability**

- **Major purpose is to facilitate validation of existing *and future* projects, activities, documents, Information Exchanges, Liaisons**

- **Identify activities / tasks that no longer meet strategic guidance and / or identifying gaps where ASIC needs to commence work / liaison**

Framework Illustrated

ASIC Working Groups can be aligned to framework where emphasis is agreed and priorities and resources assigned

Future Force

Evolving Force

Force-In-Being

CAPABILITY ELEMENTS

TIME

FUNCTIONAL CONCEPTS

Interoperability Survey

- **Survey designed to identify the most important interoperability shortfalls within a given scenario:**
  - **Humanitarian Relief Operations (HUMRO)**
  - **Non-combat Evacuation Operations (NEO)**
  - **Peace Support Operations (PSO)**
  - **Global War on Terrorism, and (GWOT)**
  - **Major Combat Operations (MCO)**
- **Derivative of USAF Capabilities Review & Risk Assessment (CRRA) Capability Planning Process**
  - **Must be structured, repeatable and analytically sound**
    - **Apply analytic principals to question selection and weighting process**
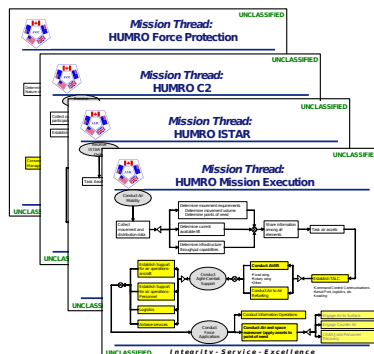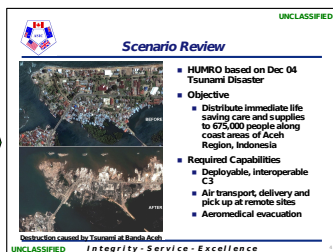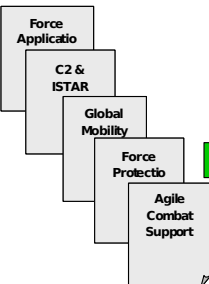   - **Not a capabilities gap analysis, but interoperability gap analysis**

Survey Methodology

Functional Concepts

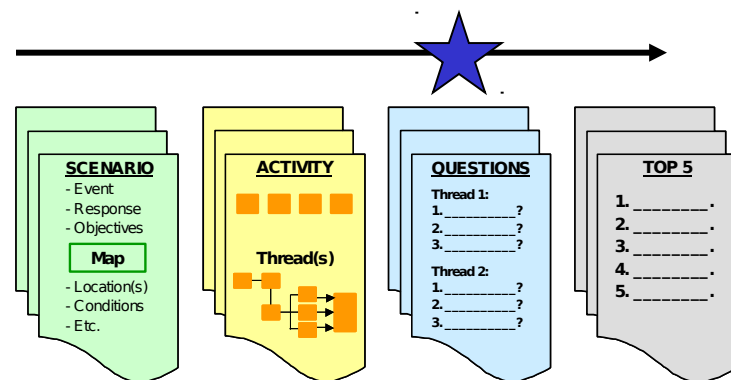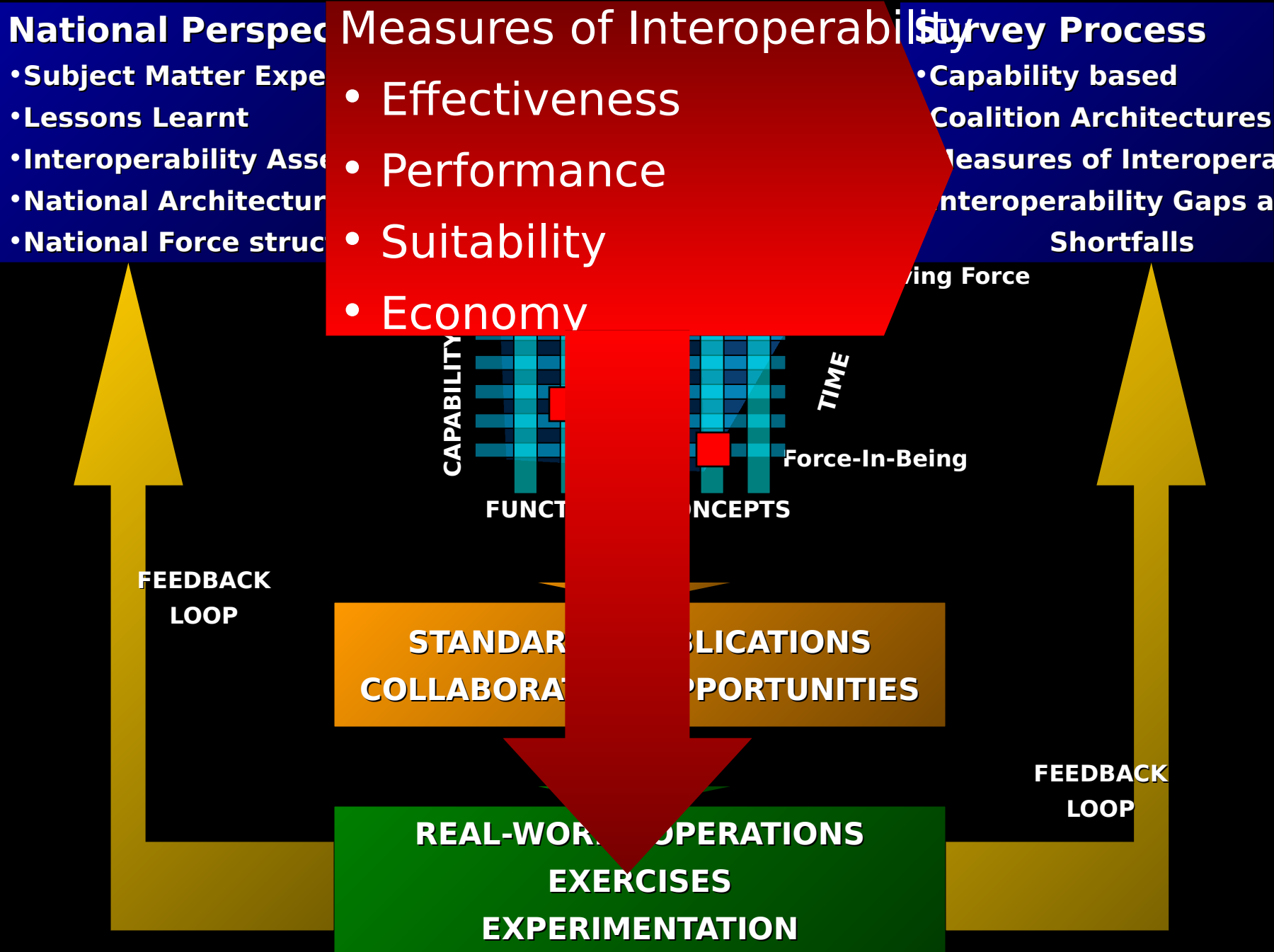**HUMRO Scenario**

HUMRO Mission Threads

- **Operational Context: Humanitarian Relief Operation (HUMRO)**
  - **Scenario: Tsunami Disaster Relief**
  - **Focus Areas: Deployable & interoperable C3, Air Transport, Aeromed. Evac. (AE)**

- **Approach** focuses the survey by determining the *activities* that make the greatest *contribution* to the *functional concepts* that have the greatest *impact* on the success of the *HUMRO mission*

  - **Questions on importance, level, impact, obstacles and future of interoperability**

SCENARIO	ACTIVITY	QUESTIONS	TOP 5
- Event		**Thread 1:**	1. _____ .
- Response		1. _____?	2. _____ .
- Objectives		2. _____?	3. _____ .
Map	**Thread(s)**	3. _____?	4. _____ .
- Location(s)		**Thread 2:**	5. _____ .
- Conditions		1. _____?	
- Etc.		2. _____?	
		3. _____?	

QUESTIONS?

www.airstandards.com